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Ryutaro Hashi

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EXAMINER

RIYAMI, ABDULLA A

ART UNIT

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2474

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DELIVERY MODE

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PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/511,091	Applicant(s) HASHI ET AL.	
	Examiner ABDULLAH RIYAMI	Art Unit 2474	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 09/08/2009.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 8-14 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 8-14 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. This is a response to an amendment/response filed on 09/08/2009.
2. Claims 1-7 have been canceled.
3. Claim 8 has been amended.
4. Claims 8-14 remain pending in the application.

Response to Arguments

5. Applicant's arguments with respect to claims 8-13 have been considered but are moot in view of the new ground(s) of rejection.
6. Applicant's arguments filed 09/08/2009 with respect to claim 8 have been fully considered but they are not persuasive.

Applicant argue that the prior art fails to disclose transmitting a link establishment request for a new link for transmission of subsequent information data before a current link for data transmission is terminated.

Examiner respectfully disagrees with Applicant's characterization of the prior art. Blakeney discloses disclose transmitting the current information data to the one receiving side communication apparatus using a link established by the first link establishment request (see paragraph 64, lines 1-10, base station receives and determines whether to accept, see paragraph 66, lines 1-20, mobile station determines whether the request was accepted, see paragraph 10, changing from **speech transmission to modem transmission**, see paragraph 9, lines 5-7, **the data communicated may be primary data or secondary data or signaling data**);

and transmitting a link establishment request for a new link for transmission of subsequent information data before a current link for data transmission is terminated (see paragraph 16, lines 1-15, first communication device requests a change of service configuration without terminating the current traffic channel connection).

Notice in paragraph 16, lines 1-15, first communication device requests a change of service configuration without **terminating the current traffic channel connection**, and that the **request message is transmitted concurrently with transmitting data in the current service configuration**, also in paragraph 10, service negotiation may be used by dropping existing service and adding a new service while maintaining the traffic channel connection, changing from **speech transmission to modem transmission**).

Notice in paragraph 10, lines 10-20, a fifth case where service negotiation may be used is during **handoff or due to changes in the link** such as range between mobile station and base station.

Claim Rejections - 35 USC § 112

7. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

8. Claims 8-13 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 8, line 8, recite "each time information data is transmitted" and in line 5, "information data is also recited". It is not clear as to whether it is the same information data or a different information data that is being referred to.

Also in line 10, it is not clear whether the information data is referred to the one recited in line 8 or line 5 or both, or different from both. Further clarification is required.

Claim Rejections - 35 USC § 103

9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

10. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

11. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was

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not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

12. Claims 8 and 10-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Blakeney et al. (US 2006/0239363 A1) in view of Bruhn (US 6452941 B1).

As per claim 8, Blakeney discloses a communication apparatus that transmits a plurality of items of information data each containing a predetermined amount of information to one receiving side communication apparatus (see figure 2, base station 10 and mobile station 30), the communication apparatus comprising:

a transmitting section (see figure 2, mobile station 30) that, after having received a response to a link establishment request from the one receiving side communication apparatus (see paragraph 63, lines 1-10 mobile station provides an origination message indicative of a service configuration requested, see paragraph 64, lines 1-10, base station receives and determines whether to accept, see paragraph 66, lines 1-20, mobile station determines whether the request was accepted), transmits information data matching the link establishment request using a link established by the link establishment request (see paragraph 64, lines 1-10, base station receives and determines whether to accept, see paragraph 66, lines 1-20, mobile station determines whether the request was accepted); and

a requesting section (see figure 2, mobile station 30) that establishes a link (see paragraph 63, lines 1-10 mobile station provides an origination message indicative of a service configuration requested, see paragraph 64, lines 1-10, base station receives

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and determines whether to accept, see paragraph 66, lines 1-20, mobile station determines whether the request was accepted),

and transmits a link establishment request for transmission of next information data before termination of a link for transmitting current information data (see paragraph 16, lines 1-15, first communication device requests a change of service configuration without terminating the current traffic channel connection).

Blakeney does not expressly disclose a requesting section that establishes a link each time information data is transmitted by transmitting a link establishment request to the one receiving side communication apparatus every time information data is transmitted.

Bruhn disclose a requesting section that establishes a link each time information data is transmitted by transmitting a link establishment request to the one receiving side communication apparatus every time information data is transmitted (see figure 5, mux 136, payload, MR, MI, and demux 120, MI, MR, payload, see figure 6, frames, see column 3, lines 60-67, mode indicators and requests transmitted with payload data, see column 4, lines 10-16, mode request which informs transmitter of a particular codec mode desired by the receiver for subsequently transmitted information blocks or frames, see column 6, lines 55-57, receiver transmitting request, see column 8, lines 1-37, mode request and mode indication and payload with multiplexor and demultiplexor, see column 9, lines 1-20, transmission of mode request and indications with payloads).

Bruhn also discloses a link establishment request for transmission of next information data before termination of a link for transmitting current information data

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(see column 4, lines 10-16, mode request which informs transmitter of a particular codec mode desired by the receiver for subsequently transmitted information blocks or frames).

Blakeney and Bruhn are analogous art since they are from the same field of endeavor of communication systems.

At the time of the invention, it would have been obvious to one of ordinary skill in the art to use Bruhn's teaching of using a requesting section that establishes a link each time information data is transmitted by transmitting a link establishment request to the one receiving side communication apparatus every time information data is transmitted (see figure 5, mux 136, payload, MR, MI, and demux 120, MI, MR, payload, see figure 6, frames, see column 3, lines 60-67, mode indicators and requests transmitted with payload data, see column 4, lines 10-16, mode request which informs transmitter of a particular codec mode desired by the receiver for subsequently transmitted information blocks or frames, see column 6, lines 55-57, receiver transmitting request, see column 8, lines 1-37, mode request and mode indication and payload with multiplexor and demultiplexor, see column 9, lines 1-20, transmission of mode request and indications with payloads) as a modification in Blakeney's method and apparatus for transmitting a plurality of items of information data each containing a predetermined amount of information to one receiving side communication apparatus (see figure 2, base station 10 and mobile station 30).

The motivation to combine would have been to have a method and apparatus where a mode request which informs a transmitter of a particular codec mode desired

by a receiver for subsequently transmitted information blocks or frames (see column 4, lines 10-15, Bruhn).

As per claim 10, Blakeney discloses disclose the transmitting section multiplexing the current information data and the link establishment request for the transmission of the next information data (see figure 2, mux 48, data from service negotiator vocoder, mode, fax).

As per claim 11, Blakeney discloses the transmitting section multiplexes the link establishment data and the information data by using at least one of frequency division multiplexing, time division multiplexing, and code division multiplexing (see paragraph 5, lines 1-5, code division multiple access).

13. Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Blakeney et al. (US 2006/0239363 A1) in view of Bruhn (US 6452941 B1) further in view of Bakshi (US 6457054 B1).

As per claim 9, Blakeney discloses a communication method for transmitting requests (see paragraph 63, lines 1-10 mobile station provides an origination message indicative of a service configuration requested). Bruhn disclose a requesting section that establishes a link each time information data is transmitted by transmitting a link establishment request to the one receiving side communication apparatus every time information data is transmitted (see figure 5, mux 136, payload, MR, MI, and demux 120, MI, MR, payload, see figure 6, frames, see column 3, lines 60-67, mode indicators and requests transmitted with payload data),

Blakeney and Bruhn do not expressly disclose the requesting section transmits the link establishment request for the transmission of the next information data immediately after the current information data has been transmitted.

Bakshi discloses the requesting section (see figure 4, client) transmits the link establishment request for the transmission of the next information data immediately after the current information data has been transmitted (see column 5, lines 10-31, 2nd data request, 3rd data request transmitted immediately after the other in a pipelining manner and figure 4, data2 and data 3).

Blakeney, Bruhn and Bakshi are analogous art since they are from the same field of endeavor of client server communications.

At the time of the invention, it would have been obvious to one of ordinary skill in the art to use the technique of Bakshi's requesting section (see figure 4, client) transmits the link establishment request for the transmission of the next information data immediately after the current information data has been transmitted (see column 5, lines 10-31, 2nd data request, 3rd data request transmitted immediately after the other in a pipelining manner and figure 4, data2 and data 3) as a modification in Bruhn's teaching of using a requesting section that establishes a link each time information data is transmitted by transmitting a link establishment request to the one receiving side communication apparatus every time information data is transmitted (see figure 5, mux 136, payload, MR, MI, and demux 120, MI, MR, payload, see figure 6, frames, see column 3, lines 60-67, mode indicators and requests transmitted with payload data, see column 4, lines 10-16, mode request which informs transmitter of a particular codec

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mode desired by the receiver for subsequently transmitted information blocks or frames, see column 6, lines 55-57, receiver transmitting request, see column 8, lines 1-37, mode request and mode indication and payload with multiplexor and demultiplexor, see column 9, lines 1-20, transmission of mode request and indications with payloads) as a modification in Blakeney transmitting request section (see paragraph 63, lines 1-10 mobile station provides an origination message indicative of a service configuration requested).

The motivation to combine would have been to have a method of sending additional requests in rapid succession to reduce latencies (see column 5, lines 25-30, Bakshi).

14. Claims 12-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Blakeney et al. (US 2006/0239363 A1) in view of Bruhn (US 6452941 B1) further in view of Melick et al. (US 6457054 B1).

As per claim 12, Blakeney discloses a communication method for transmitting requests (see paragraph 63, lines 1-10 mobile station provides an origination message indicative of a service configuration requested). Bruhn disclose a requesting section that establishes a link each time information data is transmitted by transmitting a link establishment request to the one receiving side communication apparatus every time information data is transmitted (see figure 5, mux 136, payload, MR, MI, and demux 120, MI, MR, payload, see figure 6, frames, see column 3, lines 60-67, mode indicators and requests transmitted with payload data),

Blakeney and Bruhn do not expressly disclose the requesting section transmits the link establishment request by full duplex communication which simultaneously performs transmission and reception.

Melick discloses the requesting section transmits the link establishment request by full duplex communication which simultaneously performs transmission and reception (see column 9, lines 37-38, full-duplex signaling).

Blakeney, Bruhn and Melick are analogous art since they are from the same field of endeavor of client server communications.

At the time of the invention, it would have been obvious to one of ordinary skill in the art to use the technique of Melick's the requesting section transmits the link establishment request by full duplex communication which simultaneously performs transmission and reception (see column 9, lines 37-38, full-duplex signaling) as a modification in Bruhn's teaching of using a requesting section that establishes a link each time information data is transmitted by transmitting a link establishment request to the one receiving side communication apparatus every time information data is transmitted (see figure 5, mux 136, payload, MR, MI, and demux 120, MI, MR, payload, see figure 6, frames, see column 3, lines 60-67, mode indicators and requests transmitted with payload data, see column 4, lines 10-16, mode request which informs transmitter of a particular codec mode desired by the receiver for subsequently transmitted information blocks or frames, see column 6, lines 55-57, receiver transmitting request, see column 8, lines 1-37, mode request and mode indication and payload with multiplexor and demultiplexor, see column 9, lines 1-20, transmission of

mode request and indications with payloads) as a modification in Blakeney transmitting request section (see paragraph 63, lines 1-10 mobile station provides an origination message indicative of a service configuration requested).

The motivation to combine would have been to have a method of multiplexing additional requests for two or more customers to reduce latencies (see column 22, lines 5-15, Melick).

As per claim 13, Blakeney discloses a communication method for transmitting requests (see paragraph 63, lines 1-10 mobile station provides an origination message indicative of a service configuration requested). Bruhn disclose a requesting section that establishes a link each time information data is transmitted by transmitting a link establishment request to the one receiving side communication apparatus every time information data is transmitted (see figure 5, mux 136, payload, MR, MI, and demux 120, MI, MR, payload, see figure 6, frames, see column 3, lines 60-67, mode indicators and requests transmitted with payload data),

Blakeney and Bruhn do not expressly disclose the requesting section transmits the link establishment request by bi-directional simultaneously transmission using divisional multiple access.

Melick discloses the requesting section transmits the link establishment request by bi-directional simultaneously transmission using divisional multiple access (see column 9, lines 37-38, full-duplex signaling).

Blakeney, Bruhn and Melick are analogous art since they are from the same field of endeavor of client server communications.

At the time of the invention, it would have been obvious to one of ordinary skill in the art to use the technique of Melick's the requesting section transmits the link establishment request by bi-directional simultaneously transmission using divisional multiple access (see column 9, lines 37-38, full-duplex signaling) as a modification in Bruhn's teaching of using a requesting section that establishes a link each time information data is transmitted by transmitting a link establishment request to the one receiving side communication apparatus every time information data is transmitted (see figure 5, mux 136, payload, MR, MI, and demux 120, MI, MR, payload, see figure 6, frames, see column 3, lines 60-67, mode indicators and requests transmitted with payload data, see column 4, lines 10-16, mode request which informs transmitter of a particular codec mode desired by the receiver for subsequently transmitted information blocks or frames, see column 6, lines 55-57, receiver transmitting request, see column 8, lines 1-37, mode request and mode indication and payload with multiplexor and demultiplexor, see column 9, lines 1-20, transmission of mode request and indications with payloads) as a modification in Blakeney transmitting request section (see paragraph 63, lines 1-10 mobile station provides an origination message indicative of a service configuration requested).

The motivation to combine would have been to have a method of multiplexing additional requests for two or more customers to reduce latencies (see column 22, lines 5-15, Melick).

Claim Rejections - 35 USC § 102

15. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

16. Claim 14 is rejected under 35 U.S.C. 102(e) as being anticipated by Blakeney et al. (US 2006/0239363 A1).

As per claim 14, Blakeney discloses communication method for transmitting a plurality of items of information data each containing a predetermined amount of information from a transmitting side communication apparatus to one receiving side communication apparatus (see figure 2, base station 10 and mobile station 30), the communication method comprising the steps of:

in the transmitting side communication apparatus (see figure 2, mobile station 30), transmitting a first link establishment request for transmission of current information data to the one receiving side communication apparatus (see paragraph 63, lines 1-10 mobile station provides an origination message indicative of a service configuration requested);

in the transmitting side communication apparatus (see figure 2, mobile station 30), after having received a response to the first link establishment request from the one receiving side communication apparatus (see paragraph 63, lines 1-10 mobile station

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provides an origination message indicative of a service configuration requested, see paragraph 64, lines 1-10, base station receives and determines whether to accept, see paragraph 66, lines 1-20, mobile station determines whether the request was accepted), transmitting the current information data to the one receiving side communication apparatus using a link established by the first link establishment request (see paragraph 63, lines 1-10 mobile station provides an origination message indicative of a service configuration requested, see paragraph 64, lines 1-10, base station receives and determines whether to accept, see paragraph 66, lines 1-20, mobile station determines whether the request was accepted);

and transmitting a second link establishment request for transmission of next information data before termination of a link for transmitting the current information data (see paragraph 16, lines 1-15, first communication device requests a change of service configuration without terminating the current traffic channel connection).

Conclusion

17. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See form 892.

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18. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ABDULLAH RIYAMI whose telephone number is (571)270-3119. The examiner can normally be reached on Monday through Thursday 8am-5pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Aung Moe can be reached on (571) 272-7314. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Aung S. Moe/
Supervisory Patent Examiner, Art Unit 2474

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Examiner, Art Unit 2474